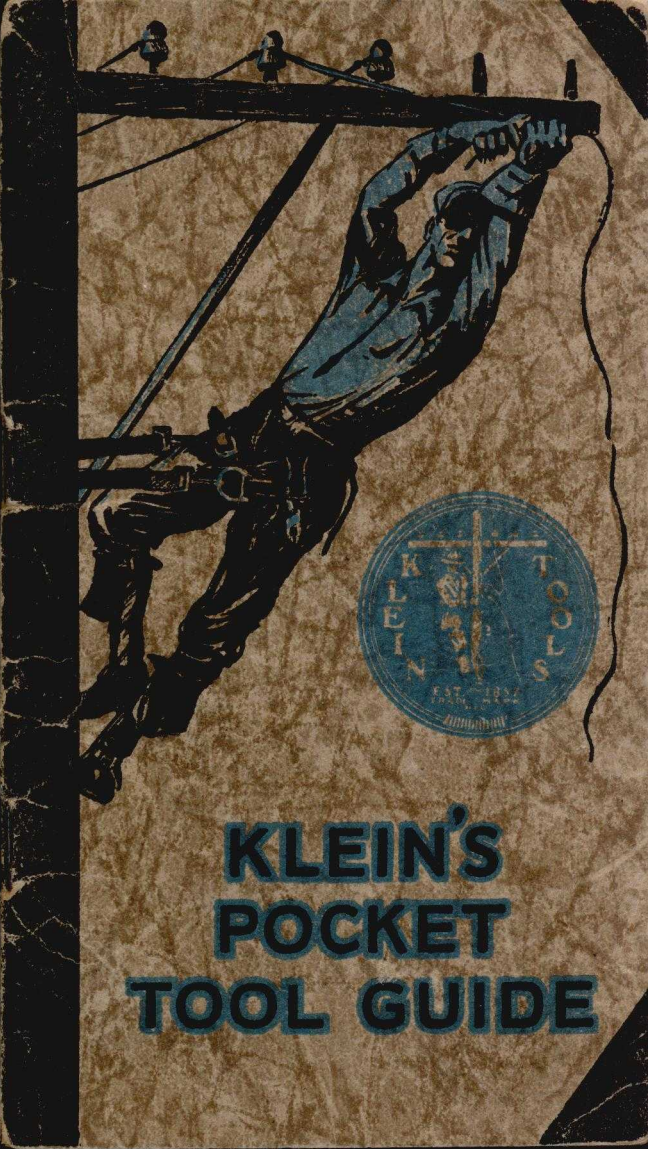



# KLEIN'S POCKET TOOL GUIDE

# Mark Well the Mark!

NEARLY seventy years of experience in designing linemen's tools is back of every tool that bears the Klein trademark. Since the establishment of our business in 1857, we have made only one quality of tools —the best—and every tool we make is stamped with our trademark, or firm name, "Mathias Klein & Sons."

All Klein tools are guaranteed against defects in material and workmanship. All claims for adjustment should be taken up directly with the factory. Be sure and mark all packages plainly with name and address in ink.

**This catalogue contains only our standard tools. We make special pliers and tools to specification for industry and will be pleased to have inquiries for such.**

**Mathias KLEIN & Sons**
Established 1857 — Chicago Ill USA

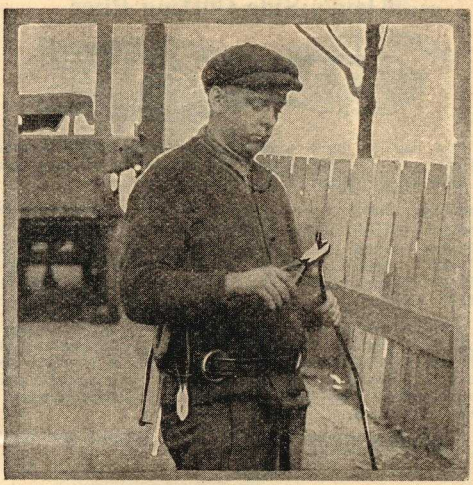
3200 Belmont Avenue, Chicago, Ill.

EDITION 28

# Different Standards for Wire Gauges in use in the United States

Dimensions of Sizes in Decimal Parts of an Inch

| Number of Wire Gauge. | American or Brown & Sharpe. | Birmingham, or Stubs' Iron Wire. | Washburn & Moen Mfg. Co. Worcester, Mass. | Imperial Wire Gauge. | Stubs' Steel Wire. | U. S. Standard Gauge for Sheet and Plate Iron and Steel. |
|---|---|---|---|---|---|---|
| 000000 | ..... | ..... | ..... | .464 | ..... | .46875 |
| 00000 | ..... | ..... | ..... | .432 | ..... | .4375 |
| 0000 | .46 | .454 | .3938 | .400 | ..... | .40625 |
| 000 | .40964 | .425 | .3625 | .372 | ..... | .375 |
| 00 | .3648 | .38 | .3310 | .348 | ..... | .34375 |
| 0 | .32486 | .34 | .3065 | .324 | ..... | .3125 |
| 1 | .2893 | .3 | .2830 | .300 | .227 | .28125 |
| 2 | .25763 | .284 | .2625 | .276 | .219 | .265625 |
| 3 | .22942 | .259 | .2437 | .252 | .212 | .25 |
| 4 | .20431 | .238 | .2253 | .232 | .207 | .234375 |
| 5 | .18194 | .22 | .2070 | .212 | .204 | .21875 |
| 6 | .16202 | .203 | .1920 | .192 | .201 | .203125 |
| 7 | .14428 | .18 | .1770 | .176 | .199 | .1875 |
| 8 | .12849 | .165 | .1620 | .160 | .197 | .171825 |
| 9 | .11443 | .148 | .1483 | .144 | .194 | .15625 |
| 10 | .10189 | .134 | .1350 | .128 | .191 | .140625 |
| 11 | .090742 | .12 | .1205 | .116 | .188 | .125 |
| 12 | .080808 | .109 | .1055 | .104 | .185 | .109375 |
| 13 | .071961 | .095 | .0915 | .092 | .182 | .09375 |
| 14 | .064084 | .083 | .0800 | .080 | .180 | .078125 |
| 15 | .057068 | .072 | .0720 | .072 | .178 | .0703125 |
| 16 | .05082 | .065 | .0625 | .064 | .175 | .0625 |
| 17 | .045257 | .058 | .0540 | .056 | .172 | .05625 |
| 18 | .040303 | .049 | .0475 | .048 | .168 | .05 |
| 19 | .03589 | .042 | .0410 | .040 | .164 | .04375 |
| 20 | .031961 | .035 | .0348 | .036 | .161 | .0375 |
| 21 | .028462 | .032 | .03175 | .032 | .157 | .034375 |
| 22 | .025347 | .028 | .0286 | .028 | .155 | .03125 |
| 23 | .022571 | .025 | .0258 | .024 | .153 | .028125 |
| 24 | .0201 | .022 | .0230 | .022 | .151 | .025 |
| 25 | .0179 | .02 | .0204 | .020 | .148 | .021875 |
| 26 | .01594 | .018 | .0181 | .018 | .146 | .01875 |
| 27 | .014195 | .016 | .0173 | .0164 | .143 | .0171875 |
| 28 | .021641 | .014 | .0162 | .0149 | .139 | .015625 |
| 29 | .011257 | .013 | .0150 | .0136 | .134 | .0140625 |
| 30 | .010025 | .012 | .0140 | .0124 | .127 | .0125 |
| 31 | .008928 | .01 | .0132 | .0116 | .120 | .0109375 |
| 32 | .00795 | .009 | .0128 | .0108 | .115 | .01015625 |
| 33 | .00708 | .008 | .0118 | .0100 | .112 | .009375 |
| 34 | .006304 | .007 | .0104 | .0092 | .110 | .00859375 |
| 35 | .005614 | .005 | .0095 | .0084 | .108 | .0078125 |
| 36 | .005 | .004 | .0090 | .0076 | .106 | .00703125 |
| 37 | .004453 | ..... | ..... | .0068 | .103 | .006640625 |
| 38 | .003965 | ..... | ..... | .0060 | .101 | .00625 |
| 39 | .003531 | ..... | ..... | .0052 | .099 | ..... |
| 40 | .003144 | ..... | ..... | .0048 | .097 | ..... |



EVERY Klein plier is hammer forged from the finest of special bar steel—and tempered, machined and fitted by mechanics, some of whom have been with us for over forty years. The hand-fitting curve to the handle—the extra care spent in tempering and matching the knives —the careful drawing to give just the right spring to the handle—the 100% "overtesting" all go to make Klein pliers the favorite among linemen.

# Klein's Side Cutting Plier

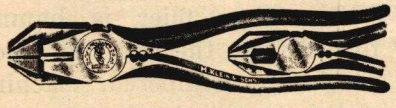
For use on bare and insulated wire. For linemen, electricians and mechanics. Adaptable for all uses where a high quality plier of this type is required.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 201-5 | 5-inch | 3 lbs. |
| 201-6 | 6-inch | 5 lbs. |
| 201-7 | 7-inch | 7½ lbs. |
| 201-8 | 8-inch | 12 lbs. |
| 201-9 | 9-inch | 12½ lbs. |

Genuine Klein Linemen's Side Cutting Plier is one of the most popular pliers in use today. Its handles are shaped to the curvature of the hand, a much desired feature. Powerful leverage and keen reinforced cutting knives make this plier adaptable for heavy cutting in telephone work.

Full clearance back of the knife permits use on insulated wire.

# Klein's Side Cutting Plier
## With Sleeve-Joint Twister



For use on bare and insulated wire. For linemen and electricians. Specially designed for telegraph and telephone work.

This plier is the same as No. 201 series (shown above), but with opening provided for twisting double sleeve joints.

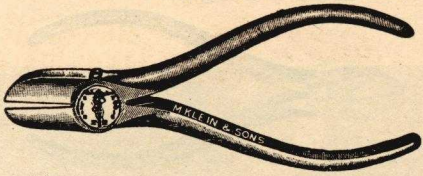
| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 212-6 | 6-inch | 5 lbs. |
| 212-7 | 7-inch | 7½ lbs. |
| 212-8 | 8-inch | 12 lbs. |

Sleeve Twister in the 6-inch is for No. 17 sleeves, B. & S. .045.

Sleeve Twister in the 7-inch is for No. 17 sleeves, B. & S. .045.

Sleeve Twister in the 8-inch is for No. 10 sleeves, B. & S. .104.

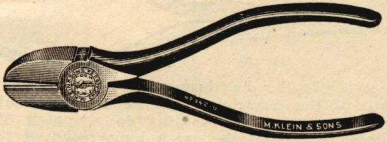
## Klein's Oblique Cutting Plier




Electricians, telephone men and switchboard builders will find this particular oblique cutting plier one of the most useful tools in their kits. Cuts close, the narrow head permitting its use in confined places. The knives are perfectly fitted, so that they meet accurately at all points.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 202-5 | 5-inch | 4 lbs. |
| 202-6 | 6-inch | 4¼ lbs. |

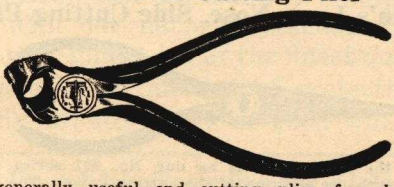
## Klein's Oblique Cutting Plier
**(Heavy Pattern)**




This plier is similar in construction to the No. 202 that has been a favorite with mechanics for many years. It is, however, made heavier to meet the requirements of those desiring a stronger plier for general work.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 242-6 | 6-inch | 4¾ lbs. |

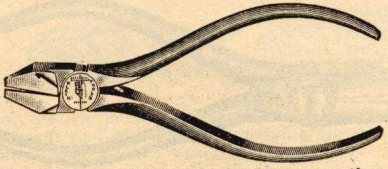
## Klein's End Cutting Plier



A generally useful end cutting plier for electrical mechanics. Has stout jaws and broad cutting knives.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 232-5½ | 5½-inch | 4 lbs. |
| 232-7 | 7-inch | 7 lbs. |

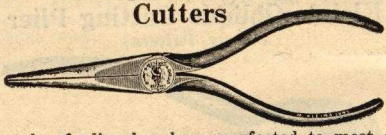
## Klein's Diagonal Plier



This plier has perhaps as many uses as the oblique pattern. It has long cutting knives well matched, so as to permit close and clean cutting. The head is narrow to penetrate confined places and work between binding posts, etc. The knives are correctly constructed to cut clean and to give lasting service.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 235-6 | 6-inch | 4½ lbs. |

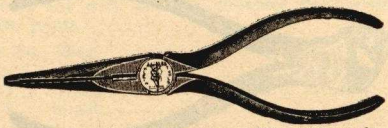
## Klein's Long Nose Plier, without Cutters



This style of plier has been perfected to meet a long-felt want of the electrician and general mechanic. Special features are its adaptability to stripping the ends of insulated wire and the extra long reach of the jaws which permits getting into difficult places. For switchboard, telegraph and telephone work, armature winding, etc. This tool is especially hardened and tempered to insure positive grip at point of nose when pressure is applied.

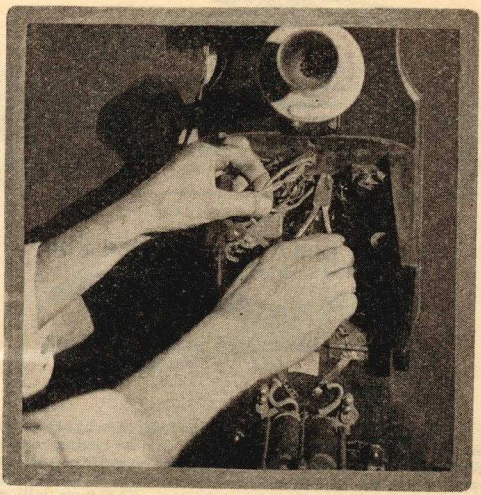
| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 301-5 | 5-inch | 2¾ lbs. |
| 301-6 | 6-inch | 3 lbs. |

## Klein's Long Nose, Side Cutting Plier



Has the same features as our No. 301 series shown above, with the addition of the cutting knives. The knives are carefully fitted and the body of the plier is hardened and tempered, assuring true cutting.

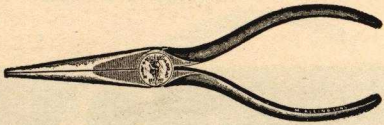
| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 203-5 | 5-inch | 2¾ lbs. |
| 203-6 | 6-inch | 3 lbs. |



EVERY tool we make is stamped with our name or trademark—it is your guarantee of the finest quality and is our method of protecting nearly seventy years of good will.

**Keep Klein Tools in your Klein Belt and you'll make your day's work easier.**

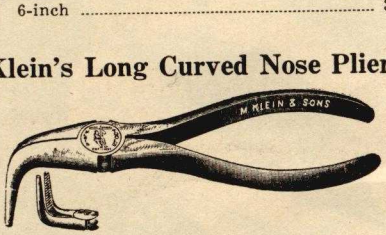
## Klein's Long Needle Nose Plier



This tool has all the features of No. 301 series, with the exception that the points of the nose are more of the needle point pattern, which some mechanics prefer. The thin points make these pliers more useful for the general class of work done in Central Offices.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 303-6 | 6-inch | 3 lbs. |

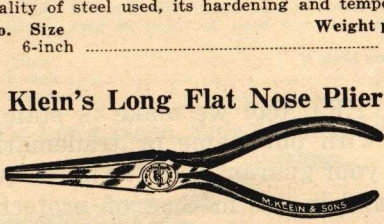
## Klein's Long Curved Nose Plier




A handy plier for working around switchboards, terminals and telephones, due to the nose being curved. The angle is arranged to give full clearance and prevent skinning of knuckles. Users will find this tool adaptable to a great variety of uses. The jaws will not lose their shape or set due to pressure applied, owing to the quality of steel used, its hardening and tempering.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 302-6 | 6-inch | 2¾ lbs. |

## Klein's Long Flat Nose Plier




Extra long wide flat nose makes this an especially useful plier. This plier is especially hardened and tempered, so that the jaw will not spring when pressure is applied. This tool is adaptable to switchboard work, telephone and telegraph work, armature winding, etc. A very handy tool for spring adjusting. This plier can be supplied with inside of jaws left smooth if desired.

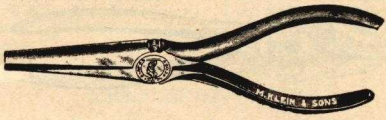
| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 305-6 | 6-inch | 3½ lbs. |

## Klein's Long Flat Nose, Side Cutting Plier

This plier is similar in its usefulness to our No. 305 series shown above with the added advantage of cutting knives.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 206-6 | 6-inch | 3½ lbs. |

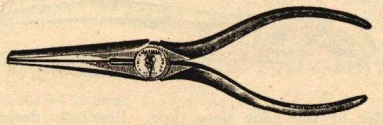
## Klein's Long Duck Bill Plier




This plier is fitted with duck bill jaws wider and heavier than those of the ordinary flat nose plier. This affords a tool with a firmer gripping surface. Also in general use as a weaver's plier.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 304-6 | 6-inch | 3¼ lbs. |

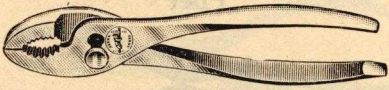
## Klein's Long Duck Bill, Side Cutting Plier



This type is the same as our No. 304 duck bill shown above with the addition of cutting knives. As on all Klein Pliers, the cutters are carefully fitted so as to cut easily and true.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 205-6 | 6-inch | 3 lbs. |

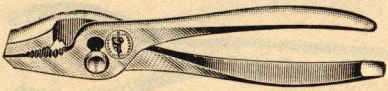
## Klein's Slip Joint Plier



Made of tempered tool steel (like all Klein Pliers) this tool will give service that cannot be expected from the ordinary plier of similar pattern. Has a wire cutter and a screwdriver handle.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 406-6½ | 6½-inch | 7 lbs. |

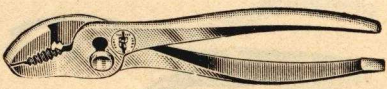
## Klein's "Utility" Slip Joint Plier



The special features of this plier, which is of the heavy duty type, are adaptability as a pipe wrench and wire cutter. Has sure grip jaws which readily accommodate objects of irregular shape. It is also made of tempered tool steel like the item above.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 407-7 | 7-inch | 7½ lbs. |

## Klein's Bent Nose Slip Joint Plier



A plier of the bent nose type. Specially designed for use in difficult places. An excellent general purpose tool that should be included in every mechanic's kit. Made of tempered tool steel and can be relied on for maximum service.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 408-8 | 8-inch | 8 lbs. |

# Metric Equivalents

## LINEAR MEASURE

1 centimeter = 0.3937 in.
1 decimeter = 3.937 in. = 0.328 feet.
1 meter = 39.37 in. = 1.0936 yards.
1 dekameter = 1.9884 rods.
1 kilometer = 0.62137 mile.

1 in. = 2.54 centimeters.
1 ft. = 3.048 decimeters.
1 yard = 0.9144 meter.
1 rod = 0.5029 dekameter.
1 mile = 1.6093 kilometers.

## SQUARE MEASURE

1 sq. centimeter = 0.1550 sq. in.
1 sq. decimeter = 0.1076 sq. ft.
1 sq. meter = 1.196 sq. yd.
1 are. = 3.954 sq. rods.
1 hektar = 2.47 acres.
1 sq. kilom'r = 0.386 sq. m.

1 sq. inch = 6.452 square centimeters.
1 sq. foot = 9.2903 square decimeters.
1 sq. yd. = 0.8361 sq. meter
1 sq. rod = 0.2529 are.
1 acre = 0.4047 hektar.
1 sq. mile = 2.59 square kilometer.

## MEASURE OF VOLUME

1 cu. centimeter = 0.061 cu. in.
1 cu. decimeter = 0.0353 cu. ft.
1 cu. m'r = 1.308 cu. yd.
1 ster = 0.2759 cd.
1 liter = 0.908 qt. dry. / 1.0567 qt. liq.
1 dekaliter = 2.6417 gal. / .135 pecks.
1 hektoliter = 2.8375 bush.

1 cu. inch = 16.39 cu. centimeters.
1 cu. foot = 28.317 cu. decimeters.
1 cu. yd. = 0.7646 cu. meter.
1 cord = 3.624 sters.
1 qt. dry = 1.101 liters.
1 qt. liq. = 0.9463 liter.
1 gal. = 0.3785 dekaliter.
1 peck = 0.881 dekaliter.
1 bu. = 0.3524 hektoliter.

## WEIGHTS

1 gram = 0.03527 ounce.
1 kilogram = 2.2046 lbs.
1 metric ton = 1.1023 English ton

1 ounce = 28.35 grams.
1 lb. = 0.4536 kilogram.
1 English ton = 0.9072 metric ton.

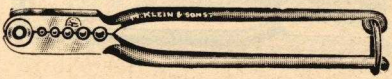
## APPROXIMATE METRIC EQUIVALENTS

1 decimeter = 4 inches.
1 meter = 1.1 yards.
1 kilometer = ⅝ of mile.
1 hektar = 2½ acres.
1 ster or cu. meter = ¼ of a cord.

1 liter = 1.06 qt. liquid. / 0.9 qt. dry.
1 hektoliter = 2⅝ bu.
1 kilogram = 2 1-5 lbs.
1 metric ton = 2200 lbs.

Ask the carpenter—the man on the job day after day—which pliers he uses—invariably it is Klein's. The reason is obvious—Klein pliers are better because they are made better—they last longer and are always satisfactory.

## Klein's Splicing Clamps




This clamp is arranged with five round holes for bare wire. Hammer forged from high grade crucible tool steel. Spring tempered. Polished heads and black handles.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 102-1 | 8-inch | 6 lbs. |

Copper wire Nos. 8, 10, 12, 14, 16, B. & S.
Iron wire Nos. 10, 12, 14, 16, 18, B. W. G.

A handy pocket size, adapted specially for telephone troublemen.

## Klein's Splicing Clamps

For bare wire, arranged with five round holes and one oval hole. Hammer forged from high grade crucible tool steel. Spring tempered. Polished heads and black handles.

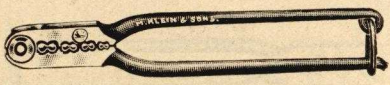
| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 102-3 | 10¾-inch | 15 lbs. |

Supersedes former Nos. 102-2 and 102-5.

Copper wire Nos. 2, 4, 6, 8, 10, 12, B. & S.
Iron wire Nos. 4, 6, 8, 10, 12, 14, B. W. G.

Used in telephone, telegraph and power line work, covering a wide range of wires. Large hole can also be used in serving guy wire or messenger strand, and is sometimes used for No. 4 copper sleeves. The dies in the above clamp fit the wires snugly to insure perfect mechanical and electrical joints.

# Klein's Splicing Clamps



For twisting double tube sleeves. Hammer forged from high grade crucible tool steel. Spring tempered. Polished heads and black handles.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 105-15 | 8-inch | 5 lbs. |

Copper sleeves Nos. 8, 10, 12, 14, 17, B. & S.
Iron sleeves Nos. 10, 12, 14, 16, 19, B. W. G.

This is a convenient pocket size splicing clamp. The chambers are arranged to fit sleeves snugly so that sleeves are not injured in twisting and insure perfect mechanical and electrical joints.

# Klein's Splicing Clamps

This clamp has five sets of chambers for twisting sleeves. Hammer forged from high grade crucible tool steel. Spring tempered. Polished heads and black handles.

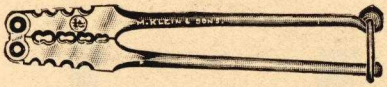
| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 105-17 | 10¾-inch | 15 lbs. |

Supersedes former Nos. 105-6, 105-7 and 105-12.

Copper sleeves Nos. 6, 8, 10, 12, 14, 17, B. & S.
Iron sleeves Nos. 8, 10, 12, 14, 16, 19, B. W. G.

The above clamp is intended for telephone, telegraph and power line work. The chambers are arranged to fit the sleeves snugly so that sleeves are not injured in twisting and insure perfect mechanical and electrical joints.

# Klein's Combination Wire and Sleeve Clamps



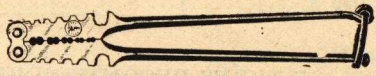

Hammer forged from high grade crucible tool steel. Spring tempered. Polished heads and black handles.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 132-12 | 9-inch | 10 lbs. |

Supersedes former No. 132-2.

Above clamp has 4 round holes for twisting bare wire.
Copper wire Nos. 6, 8, 10, 12, B. & S.
Iron wire Nos. 8, 10, 12, 14, B. W. G.
Reverse side has 4 double chambers for twisting sleeves.
Copper sleeves Nos. 8, 10, 12, 14, 17, B. & S.
Iron sleeves Nos. 10, 12, 14, 16, 19, B. W. G.
Standard telephone splicing clamp for general line and trouble work.

# Klein's Combination Wire and Sleeve Clamps



Hammer forged from high grade crucible tool steel. Spring tempered. Polished heads and black handles.

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 132-15 | 11¼-inch | 15½ lbs. |

Supersedes former Nos. 132-3, 132-4, 132-5, 132-9, 132-11, 132-13 and 132-14.

Above clamp has 5 round holes for twisting bare wire. One oval hole for guy strand, .437 x .624.
Copper wire Nos. 4, 6, 8, 10, 12, B. & S.
Iron wire Nos. 6, 8, 10, 12, 14, B. W. G.
Reverse side has 5 double chambers for twisting sleeves.
Copper sleeves Nos. 6, 8, 10, 12, 14, 17, B. & S.
Iron sleeves Nos. 8, 10, 12, 14, 16, 19, B. W. G.
Oval Hole .437 x .624.

This clamp covers complete range of wires as usually handled by telephone, telegraph and power linemen. Practically a universal tool.

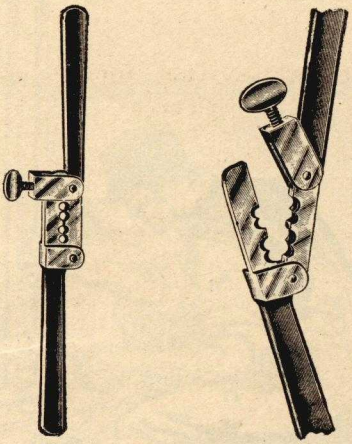
## Comparative Table for Standard Sleeves

| B. & S. Copper | | N. B. & S. Copper | | B. W. G. Copper | | B. W. G. Iron | |
|---|---|---|---|---|---|---|---|
| No. | Diam. | No. | Diam. | No. | Diam. | No. | Diam. |
| .... | ..... | .... | ..... | 8 | .165 | .... | ..... |
| 8 | .128 | 10 | .128 | .... | ..... | .... | ..... |
| .... | ..... | .... | ..... | 10 | .134 | 10 | .134 |
| 10 | .102 | 12 | .104 | .... | ..... | 12 | .109 |
| 12 | .081 | 14 | .080 | .... | ..... | 14 | .083 |
| 14 | .064 | .... | ..... | .... | ..... | .... | ..... |
| 17 | .045 | 17 | .045 | .... | ..... | .... | ..... |
| 18 | .040 | .... | ..... | .... | ..... | .... | ..... |
| 19 | .036 | .... | ..... | .... | ..... | .... | ..... |

### NO. OF TURNS RECOMMENDED

| No. (B. & S.) | No. of turns |
|---|---|
| ... | ... |
| No. 8 and larger | 3½ |
| No. 9 to No. 12 | 3 |
| No. 14 to No. 17 | 4 |

# Klein's "Di-stock" Sleeve Twister



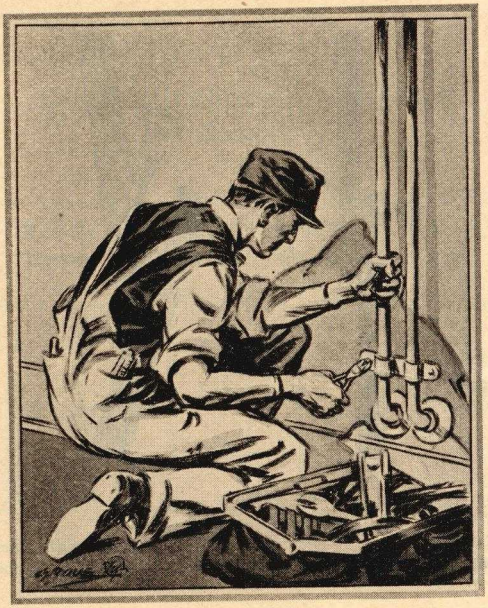
| Cat. No. | Weight Each |
|---|---|
| 107-2 (for sleeves) | 4 lbs. |

Has ample leverage for use on heavy wires beyond the capacity of standard splicing clamps or connectors. (Can be made for twisting bare wire if desired.)

Illustration at left shows "Di-Stock" fitted for making double tube joints. At right is tool ready for the insertion of sleeves for joining.

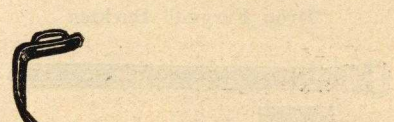
Forged from high grade crucible steel. Has swing latch provided with thumb nut to fit over reverse jaw to hold both jaws securely in place.

Prices on any desired combination of sleeve openings on application. We carry stock of these tools in blank and cut the openings as required. To avoid possibility of error, samples of the sleeves (or wire) for which tools are desired **must** accompany order.



In those out of the way places—back of the wash tub—under the sink—Klein pliers fit. The master workman—the man who knows and appreciates the best in tools—demands the Klein trademark on his pliers. He buys not by original cost but for the years of splendid, satisfactory service that Klein pliers give him.

## Klein's Eastern Climbers



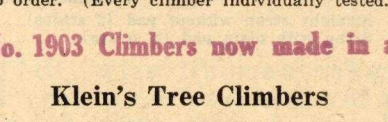

NOTE—In ordering climbers always mention the length of shank wanted. Measure from instep to the extreme end.

| Cat. No. | | Weight per Pair |
|---|---|---|
| 1901 | Punched Strap Loops, standard pattern | 3⅝ lbs. |
| 1900 | Riveted Strap Loops | 3⅝ lbs. |
| 1903 | Light Weight (to 16½ inch only) | 2¾ lbs. |

Stock sizes 15, 15½, 16, 16½, 17, 17½ and 18 inches, measured from the instep to the end of shank. Other sizes to order. (Every climber individually tested.)

**No. 1903 Climbers now made in all sizes.**

## Klein's Tree Climbers

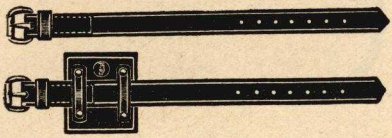



| Cat. No. | | Weight per Pair |
|---|---|---|
| 1907 | Punched Strap Loops | 3¾ lbs. |

**Made to order only. These climbers are similar to the No. 1901 but are furnished with extra long gaffs necessary to penetrate bark in tree climbing. The gaffs (or spurs) are 5½ inches long, measured on the outside, and 3 inches long, measured on the underside. They are set high in the leg iron so that the points clear the ground when walking. These are the standard tree climbers used by Forest Rangers, Top Loggers, Fire Wardens and Surveyors.**

# Straps for Eastern Climbers

## "Drop Forged" Buckles



| Cat. No. | | Weight per Doz. Sets |
|---|---|---|
| 5301-1 | | 15 lbs. |

The set consists of two upper straps with 4x4 plain leather pads and two lower straps as shown in cut, made of select harness leather, extra heavy "drop forged" roller buckles. Heel straps (over all), 22 inches long by 1¼ inches wide; calf strap (over all), 22 inches long by 1¼ inches wide.

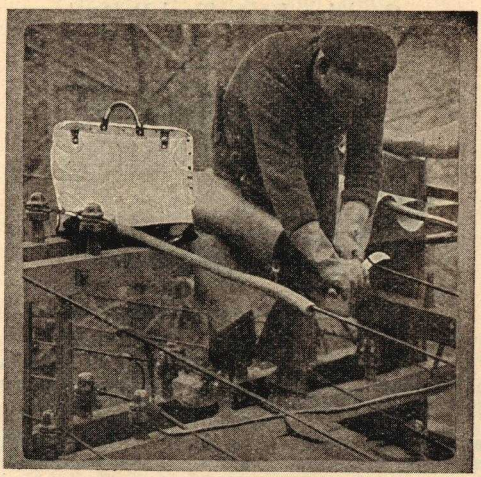
| | | |
|---|---|---|
| 5301-2 | Same as above, with sheep lined pads | 16 lbs. |
| 5301-3 | Same as above, with felt lined pads | 16 lbs. |

| | | Weight per Doz. Pairs |
|---|---|---|
| 5301-4 | Straight strap without pad (2 straps) | 6 lbs. |
| 5301-5 | Strap with plain pad (2 straps) | 9 lbs. |

# Soft Pads for Eastern Climbers

| Cat. No. | | | Weight per Doz. Pairs |
|---|---|---|---|
| 8200 | Sheep lined | 4x4 inches | 3 lbs. |
| 8201 | Felt lined | 4x4 inches | 3 lbs. |
| 8202 | Plain leather | 4x4 inches | 3 lbs. |

These pads are made of select leather—arranged with loops through which to slip climber straps.



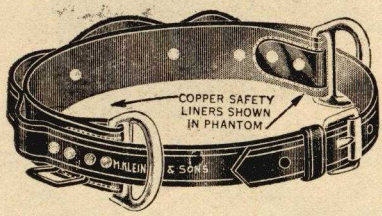
THE wise lineman takes no chances in his selection of a tool belt and safety strap—he buys Klein tool belts and safety straps. Only the finest of selected harness leather is used in the manufacture of Klein tool belts and safety straps and they are securely sewed and riveted throughout.

Reinforcements are provided at D rings on tool belts and at the snaps on safety straps, as an additional precaution.

**Don't take chances with your life —look for the Klein trademark and catalog number before you buy!**

# Genuine Klein Tool Belts

## "Drop Forged" Tested Hardware




DROP FORGED DEE RINGS AND BUCKLE

**All belts are made in lengths 36, 38, 40, 42, 44, 46, 48 and 50 inches. Specify length required, measuring from end of buckle to middle hole at the other end of belt.**

| Cat. No. | Width | Weight per Doz. |
|---|---|---|
| **5202** | 2¼-inch | 30 lbs. |

Made of select first quality harness leather. The cushion 2¼ in. wide carries the "D" rings. The outer or loop layer is 1½ in. wide formed into tool loops by riveting to the cushion. It also passes through the "D" rings and is furnished with a strong drop forged buckle tested to 1500 lbs.

The "D" rings are solid steel drop forgings of improved design, tested to 1500 lbs. Surfaces taking the wear of the "D" rings are protected with copper safety liners riveted through the full thickness of belt. All rivets are solid copper set with burrs and sewing is with hot waxed linen thread, lock stitched. "D" rings and buckle galvanized finish.

| Cat. No. | Width | Weight per Doz. |
|---|---|---|
| **5204** | 3½-inch | 32 lbs. |

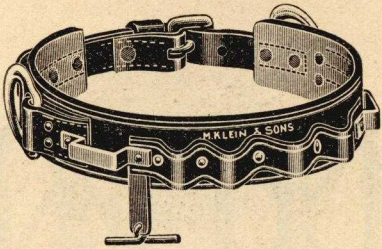
Same general description as 5202 above but cushion 3½ inches wide.

| Cat. No. | Width | Weight per Doz. |
|---|---|---|
| **5205** | 2¼-inch (double thickness) | 33 lbs. |

**This belt is similar to 5202 but is of double thickness.**

**Each belt packed in individual container.**

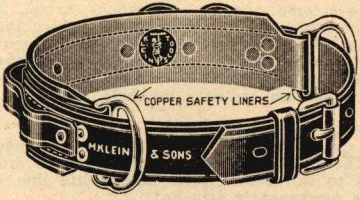
# Genuine Klein Tool Belts
## "Drop Forged" Tested Hardware




DROP FORGED TESTED DEE RINGS AND BUCKLE

| Cat. No. | Width | Weight per Doz. |
|---|---|---|
| 5210 | 3-inch A. T. & T. Co. (Bell System) type | 38 lbs. |

Made of first quality harness leather. The cushion, 3 inches wide, is in one piece to which the "D" rings are secured by means of separate pieces of leather riveted and sewed through the cushion. The belt straps are in two pieces, securely sewed and riveted to the cushion at either end. Two plier keepers are provided—one at each side of belt. There is also a tape holder of rawhide.

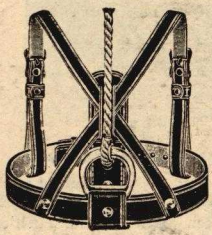



DROP FORGED TESTED DEE RINGS AND BUCKLE

| Cat. No. | Width | Weight per Doz. |
|---|---|---|
| 5211 | 3-inch N. E. L. A. type | 36 lbs. |

First quality harness leather throughout. The inner or cushion layer, 3 inches wide, is narrowed at each end to carry the "D" rings. The body strap, 2 inches wide, is riveted and stitched to the cushion and also passes through the "D" rings. Two tool straps are provided and formed into two tool loops at each side of the belt by riveting through the two layers of belt proper. In both the above belts "D" rings and buckles are solid steel drop forgings, each tested to 1500 lbs. and are galvanized to prevent rust. All rivets are solid copper, hand set with burrs. Sewing is with linen thread, hot waxed and lock stitched. Each belt packed in individual container.

# Klein's Safety Harness



BACK VIEW

This harness has been designed for use where danger from gassing is present. Working in gassy manholes, gas tanks, oil tanks and even boilers, men are frequently overcome and an emergency arises instantly. This harness provides a sure means by which the patient can be brought to safety, and the danger overcome. **The design of the harness is such that it slings the wearer in a perpendicular position so that he can be readily hauled through an ordinary manhole opening.**

A solid harness leather back plate 2¼ in. x 10 in. is stitched and riveted around the 1¼ in. adjustable belt strap. The back plate also carries a tested drop-forged "D" ring to which the ¾ in. manila life line, 25 ft. in length, is permanently attached.

The shoulder straps are ¾ in. and made adjustable and riveted to the belt at the single ends.

These straps serve to hold the belt in position around the chest, so as not to encumber the wearer while working.

| Cat. No. | | Weight per Doz. |
|---|---|---|
| 5209 | Harness complete with life line | 30 lbs. |

THE strongest boosters for Klein pliers are the linemen. They know from past experience that Klein pliers stand the gaff.

The present design of Klein pliers is due to a large extent to the many suggestions for improvements and changes we have received from practical men.

You can tell a workman by the tools he carries.

**You will find the Klein trademark on the tools in the old-timer's belt.**

# Genuine Klein Safety Straps

## "Drop Forged" Tested Hardware

All Klein straps are cut from first quality harness leather, back or center stock only. All rivets solid copper set with burrs. Drop forged snaps and buckles tested individually to 1500 pounds, galvanized finish. Straps may be lengthened or shortened by adjusting buckle. Each strap packed in individual container.

DROP FORGED SNAPS AND BUCKLE

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 5250 | 1¾ in. x 5 ft. 8 in. Solid drop forged snaps, with formed roller | 30 lbs. |

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 5251 | 1¾ in. x 5 ft. 8 in. Solid forged snaps with formed roller | 30 lbs. |

In this strap the wear under buckle is taken by leather protecting flap riveted to the strap and slotted to receive fixed end of strap as illustrated. The strap is a general favorite and has been adopted by many of the leading properties of the country.

DROP FORGED SNAPS AND BUCKLE

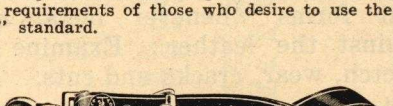
| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 5253 | 2 in. x 5 ft. 8 in. Extra heavy drop forged roller snaps and buckle | 39 lbs. |

DROP FORGED SNAPS AND BUCKLE

**("Bell System" Type)**

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 5257-S | 2 in. x 5 ft. 1½ in. A. T. & T. Co. (Bell System) type | 38 lbs. |
| 5257-L | 2 in. x 5 ft. 10 in. A. T. & T. Co. (Bell System) type | 40 lbs. |

This strap has a double tongue buckle and is made to fill the requirements of those who desire to use the "Bell System" standard.

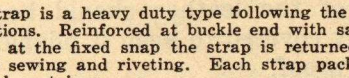



DROP FORGED SNAPS AND BUCKLE

**(National Electric Light Association Type)**

| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 5258 | 2 in. x 5 ft. 6 in. N.E.L.A. type | 39 lbs. |

This strap is a heavy duty type following the N.E.L.A. specifications. Reinforced at buckle end with safety copper clip, at the fixed snap the strap is returned and secured by sewing and riveting. Each strap packed in an individual container.




| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 5215 | 1¾ in. x 15 in. Forged steel buckle with "D" ring | 14 lbs. |

This extension strap is worn permanently attached to one "D" ring on body belt and is used when a large diameter pole demands an extra length on the regular safety strap.

## Care of Leather Goods

IT PAYS to give safety straps and tool belts proper attention. Below are a few rules, which if carefully followed, will give you the service you have a right to expect from Klein leather goods.

### Rules

Go over leather at least once every 90 days and scrape out the "scale" that forms whenever metal rubs against the leather. Examine for stretch, wear, cracks and cuts.

Take a small quantity of Neats-foot oil on a rag and rub into the leather on the hair or black side.

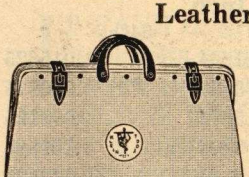
Do not flush the oil on directly from the can—the leather soaks up the oil in the one spot only, whereas every inch of the leather should be uniformly covered to keep it pliable and waterproof.

In storage particular care should be taken to keep belts and straps away from direct or close contact with heat, such as steam coils, radiators or stoves. Leather exposed to such conditions rapidly deteriorates and loses its tensile strength. It becomes dry, brittle and unreliable. After exposure to water or acid, belts and straps should be wiped off as quickly as possible with an oily rag dipped in Neats-foot oil as before described.

# Decimal Equivalents of Fractions of an Inch

| 8ths | | 16ths | | 32ds | | 64ths | |
|---|---|---|---|---|---|---|---|
| 1/8 | .125 | 1/16 | .0625 | 1/32 | .03125 | 1/64 | .015625 |
| 1/4 | .250 | 3/16 | .1875 | 3/32 | .09375 | 3/64 | .046875 |
| 3/8 | .375 | 5/16 | .3125 | 5/32 | .15625 | 5/64 | .078125 |
| 1/2 | .500 | 7/16 | .4375 | 7/32 | .21875 | 7/64 | .109365 |
| 5/8 | .625 | 9/16 | .5625 | 9/32 | .28125 | 9/64 | .140625 |
| 3/4 | .750 | 11/16 | .6875 | 11/32 | .34375 | 11/64 | .171875 |
| 7/8 | .875 | 13/16 | .8125 | 13/32 | .40625 | 13/64 | .203125 |
| | | 15/16 | .9375 | 15/32 | .46875 | 15/64 | .234375 |
| | | | | 17/32 | .53125 | 17/64 | .265625 |
| | | | | 19/32 | .59375 | 19/64 | .296875 |
| | | | | 21/32 | .65625 | 21/64 | .328125 |
| | | | | 23/32 | .71875 | 23/64 | .359375 |
| | | | | 25/32 | .78125 | 25/64 | .390625 |
| | | | | 27/32 | .84375 | 27/64 | .421875 |
| | | | | 29/32 | .90625 | 29/64 | .453125 |
| | | | | 31/32 | .96875 | 31/64 | .484375 |
| | | | | | | 33/64 | .515625 |
| | | | | | | 35/64 | .546875 |
| | | | | | | 37/64 | .578125 |
| | | | | | | 39/64 | .609375 |
| | | | | | | 41/64 | .640625 |
| | | | | | | 43/64 | .671875 |
| | | | | | | 45/64 | .703125 |
| | | | | | | 47/64 | .734375 |
| | | | | | | 49/64 | .765625 |
| | | | | | | 51/64 | .796875 |
| | | | | | | 53/64 | .828125 |
| | | | | | | 55/64 | .859375 |
| | | | | | | 57/64 | .890625 |
| | | | | | | 59/64 | .921875 |
| | | | | | | 61/64 | .953125 |
| | | | | | | 63/64 | .984375 |

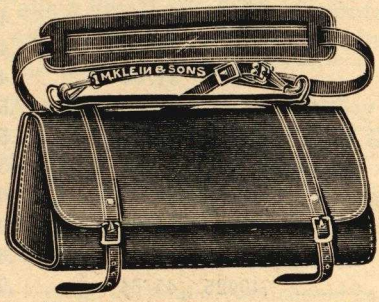
## Linemen's Canvas Tool Bag, Leather Bottom



| | | |
|---|---|---|
| 5102-12 | 12-in..... | 2⅝ lbs. |
| 5102-14 | 14-in..... | 3 lbs. |
| 5102-16 | 16-in..... | 3½ lbs. |
| 5102-18 | 18-in..... | 3¾ lbs. |
| 5102-20 | 20-in..... | 3⅞ lbs. |
| 5102-22 | 22-in..... | 4 lbs. |
| 5102-24 | 24-in..... | 4½ lbs. |

This bag is made of one piece of white duck reinforced all around the bottom. The bottom is made of leather outside and duck inside, lock stitched all around. The bottom is protected with strong steel studs. Bottom and sides are joined together with lock stitched leather welt seams. Has harness leather handles and two retaining straps with buckles.

## Inspector's Harness-Leather Tool Bag

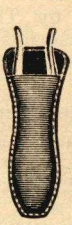



| Cat. No. | Size | Weight Each |
|---|---|---|
| 5108-14 | 14x8 inches | 3 lbs. |
| 5108-16 | 16x8 inches | 4⅛ lbs. |
| 5108-18 | 18x8 inches | 4½ lbs. |
| 5108-20 | 20x8 inches | 5⅛ lbs. |
| 5108-22 | 22x8 inches | 6 lbs. |
| 5108-24 | 24x8 inches | 7¼ lbs. |

This bag offers a combination of good features. It is made of harness leather and will stand rough and hard usage. It has a shoulder strap combined with a pad and hand strap; also a saw and bit holder. The bottom is three ply and is protected with steel studs. Retaining straps pass clear around the bag. All seams are sewed with hot waxed linen thread, lock stitched.

# Plier Pockets

5107



5112

5111

5116

**Cat. No.** **Weight per Doz.**
5107 ..... 2½ lbs.

Made of a good quality leather. For carrying pliers when at work. Has slits through which belt is inserted.

**Cat. No.** **Weight per Doz.**
5112 ..... 2½ lbs.

Same as No. 5107 except plier does not protrude.

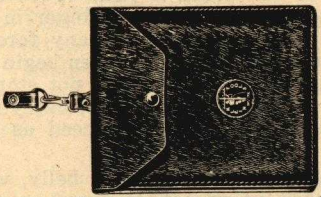
**Cat. No. Size** **Weight per Doz.**
5111 5 in. x 7 in. ..... 2½ lbs.

**Hip Pocket Tool Case.** For carrying pliers or other tools in hip pockets. Prevents cutting of clothes, or possible injury to the person. Made of black leather.

**Cat. No. Size** **Weight per Doz.**
5116 10 in. long ..... 6 lbs.

**Detachable Holster.** Made of heavy harness leather with loop to slip over belt. Carries 7, 8 or 9 inch side cutting pliers. Mouth of pocket framed to hold open position permanently.

# Rubber Glove Pouch



**Cat. No. Size** **Weight per Doz.**
**5120-9** 7½ in. x 9 in. deep. ..... 4½ lbs.

Leather pocket for carrying rubber gloves (folded). Comes equipped with snap and "D" ring, ready to attach to body belt.

**Cat. No. Size** **Weight per Doz.**
**5120-15** 7½ in. x 15 in. deep. ..... 6½ lbs.

Same as above but larger to accommodate gloves without folding them.

## Resuscitation from Electric Shock

AS RECOMMENDED by The National Electric Light Association. Follow these instructions even if the victim appears dead.

1. Immediately Break the Circuit.

With a single quick motion, free the victim from the current. Use any dry non-conductor (clothing, rope, board) to move either the victim or the wire. Beware of using metal or any moist material. While freeing the victim from the live conductor have every effort also made to shut off the current quickly.

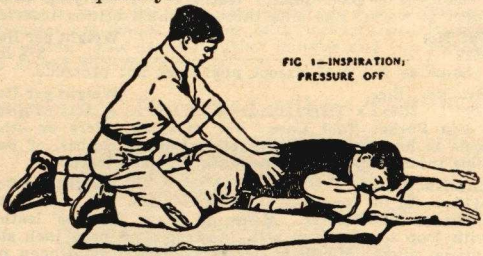


FIG 1—INSPIRATION; PRESSURE OFF

2. Instantly attend to the victim's breathing.

As soon as the victim is clear of the conductor, rapidly feel with your finger in his mouth and throat and remove any foreign body (tobacco, false teeth). Then begin artificial respiration at once. Do not stop to loosen the victim's clothing now; every moment of delay is serious. Proceed as follows:

(a) Lay the subject on his belly, with arms extended as straight forward as possible and with face to one side, so that nose and mouth are free for breathing (see Fig. 1). Let an assistant draw forward the subject's tongue.

(b) Kneel straddling the subject's thighs, and facing his head; rest the palms of your

hands on the loins (on the muscles of the small of the back), with fingers spread over the lowest ribs, as in Fig. 1.

(c) With arms held straight, swing forward slowly so that the weight of your body is gradually but not violently, brought to bear upon the subject (see Fig. 2). This act should take from two to three seconds.

(d) Then immediately swing backward so as to remove the pressure, thus returning to the position shown in Fig. 1.

(e) Repeat deliberately twelve to fifteen times a minute the swinging forward and back a complete respiration in four or five seconds.

(f) As soon as this artificial respiration has been started, and while it is being continued, an assistant should loosen any tight clothing about the subject's neck, chest, or waist.

2. Continue the artificial respiration (if necessary, two hours or longer) without interruption until natural breathing is restored, or until a physician arrives. If natural breathing stops after being restored, use artificial respiration again.

3. Do not give any liquid by mouth until the subject is fully conscious.

4. Give the subject fresh air, but keep him warm.

5. Send for nearest doctor.

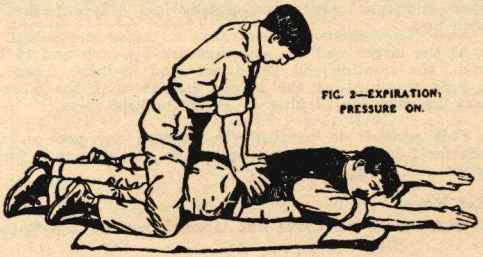


FIG. 2—EXPIRATION; PRESSURE ON.

# Klein's Combination Steel Lag Screw Wrench

| Cat. No. | Length | Weight per Doz. |
|---|---|---|
| 3109-20 | 13½-inch | 20 lbs. |

This wrench is forged from select bar steel. The slot is formed in a cross shape and will fit machine bolts, nuts or lag screws from ⅜-inch to ⅝-inch. The small end of the wrench is arranged for 5/16-inch machine bolts or lag screws. The round hole allows the end of a bolt to come through as the nut is run on.

The jaw is wider at its lower portion than at the entrance and when this wrench is put on a nut or bolt the tendency is to draw the bolt head or nut into the wrench and prevent slipping off, a most desirable advantage original with this wrench and a real "safety" feature.

# Klein's Lineman's Wrench

## "Bell System" Type

| Cat. No. | Length | Weight per Doz. |
|---|---|---|
| 3146 | 13-inch | 21 lbs. |

This wrench is forged of select bar steel and is of the open end type with two openings of different size at each end.

At the larger end the openings are 1⅛-inch and 15/16-inch, the smaller end 13/16-inch and ⅝-inch. There is a hole provided at the larger end so that the wrench may be used for turning in standard pole steps.

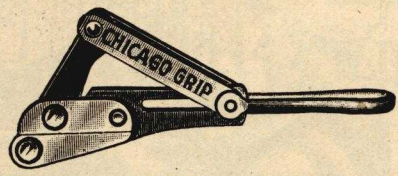
This wrench is particularly adapted for use on the heavier 3-bolt guy clamps on which the clearance for a wrench is limited.

| Cat. No. | |
|---|---|
| 3146-A | Same as above but larger openings for ¾-inch hardware. |

Industry demands the best in tools and equipment for maximum production. Many large industries use Klein pliers exclusively because years of service have proved that Kleins give the most efficient and economical service. Kleins are standard in the tool room.

**NOTE: All parts of Chicago grips are forged or wrot. They are, therefore, safe to use under much heavier loads than is possible with inferior grips assembled from steel stampings and malleable castings.**

## Klein's "Chicago" Grips for Bare Wire




Gripping jaws are machined smooth. Rivets are machine turned and workmanship throughout is first class.

Once this grip seizes the wire it holds on with the tenacity of a bull dog. The harder the pull, the tighter the hold. It pulls straight without leaving kinks in the wire. It is handy to put on and holds itself in place by means of a spring acting on the compressing lever. A noteworthy feature is the arrangement of the draw link so that it does not hang down at right angles, and is therefore not in the way of the line when the grip is put on.

| Catalog Number | | Maximum Opening | Weight Each | Size No. |
|---|---|---|---|---|
| 1613-30 | No. 6 wire and smaller | 7/32" | 1½ lbs. | 1 |
| 1613-40 | No. 0 wire and smaller | 5/16" | 2⅝ lbs. | 2 |
| 1613-50 | No. 0000 wire and smaller | ½" | 7½ lbs. | 3 |

## Klein's "Chicago" Grips for Insulated Wire

| Catalog Number | | Maximum Opening | Weight Each | Size No. |
|---|---|---|---|---|
| 1611-20 | No. 4 wire and smaller | ½" | 2 5/16 lbs. | 6 |
| 1611-30 | No. 00 wire and smaller | 9/16" | 3¾ lbs. | 4 |
| 1611-40 | No. 0000 wire and smaller | ¾" | 7¼ lbs. | 5 |

# Klein's "Chicago" Grips for Aluminum Cable

| Catalog Number | | Maximum Opening | Weight Each |
|---|---|---|---|
| 1626-39 | For 3/0 A. C. S. R. up to 336,400 C. M. Aluminum Cable S. R. | ¾" | 7¾ lbs. |
| 1626-40 | For 397,500 C. M. up to 500,000 C. M. Aluminum Cable S. R. | 15/16" | 7¾ lbs. |

Both gripping jaws are smooth and cannot injure the strands of the cable.

**NOTE—Grips for other size aluminum cable can be made to order.**

# Klein's "Chicago" Grips for Messenger Strand and Heavy Cables

These grips successfully fill a long felt want taking the heavy loads incident to larger strands without injury to the strand itself.

Gripping jaws are machined smooth. Rivets are machine turned and workmanship throughout is first class.

Once this grip seizes the wire it holds on automatically. The harder the pull, the tighter the hold. It pulls straight without leaving kinks. It is handy to put on and release.

| Catalog Number | | Maximum Opening | Weight Each |
|---|---|---|---|
| 1628-6 | For 2,200 lb. and 6,000 lb. Messenger Strand | 11/32" | 8½ lbs. |
| 1628-16 | For 10,000 lb. and 16,000 lb. Messenger Strand | 11/16" | 14 lbs. |

These grips frequently can be modified to accommodate cables and conductors of larger diameters. Write us on your special requirements.

## Pointers on Bleeding

ARTERIAL BLEEDING—Blood bright red, comes in spurts.

Send for surgeon.

Lay patient flat.

Elevate the limb or part.

Apply pressure directly to the bleeding part or along the course of the artery and between the wound and the heart. Pressure can be applied quickest with the hand, which should be covered with sterilized gauze. Pressure with the hand can be kept up only for a few minutes; substitute a pad or compress, and bind it on.

In applying a pad or compress, fill the wound with sterilized gauze. A tight bandage should not be left on too long.

**Veinous Bleeding**—Blood purple or dark color, not in spurts.

Elevate the parts. Remove tight clothing, garters and everything between the wound and the heart. Apply pressure directly to the wound.

**Capillary Bleeding**—Oozing.

Apply a bandage directly to the wound. Use hot or cold applications. In bleeding cases, first aid ends when bleeding is stopped and the wound covered. The case then belongs to the surgeon. Do not give stimulants until bleeding has stopped.

## Take Care of Your Eyes

WHAT is so precious as the sense of sight?

Can anyone afford to experiment with the eye?

Consult a GOOD physician.

However, cinders, sand and small objects can usually (not always) be easily removed by simple means.

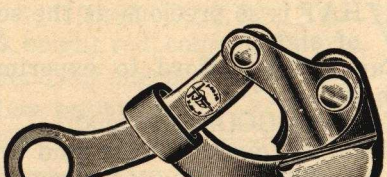
Never rub the eye, as that may cause the foreign substance in the eye to scratch the sensitive eyeball and also irritate the eyelids.

Keep the eye closed and as quiet as possible. In this way tears will accumulate and often wash the particles out of the eye without any further treatment.

If the body is hidden from view under the upper or lower lids, a grain or two of whole flaxseed inserted in the eye, closing the lids, will often do the work. Another method is to catch the upper lid by the lashes and pull it away from the eyeball, at the same time blowing the nose. Another method is to invert the upper lid and pick out the foreign substance with a clean piece of cloth.

**Do not leave the foreign substance in the eye for any length of time;** if you are unable to remove same immediately, go to the doctor and have it removed at once. This will prevent irritation, which sometimes proves serious and always painful.

## Klein's Haven's Steel Grip



| Cat. No. | Size | Weight per Doz. |
|---|---|---|
| 1604-10 | No. 8 wire and finer | 12 lbs. |
| 1604-20 | ½-inch wire and finer | 30 lbs. |

A popular grip for all 'round work. Forged from crucible stool steel. The eccentric or dog is hand cut, hardened and tempered. All rivets are steel, machine turned. Almost automatic in action. The handle and the eccentric allows instantaneous hold. A shake of the rope on the tackle disengages or releases the grip. It will not slip, heavy strain only making it grip tighter.

## Klein's Improved Haven's Grip

| Cat. No. | Weight per Doz. |
|---|---|
| 1625-20 | 69 lbs. |

A heavier grip than the one shown above. Adapted for handling plain or stranded wire from No. 6 to ¾-inch in diameter. The particular feature of construction is the addition of a swing latch which engages with stud on the lower jaw, thus centralizing the pressure on the cross-bolt, which is strongly made of turned machined steel.

## Safety-First Rules

### SUGGESTIONS FOR ACCIDENT PREVENTION AT MANHOLES

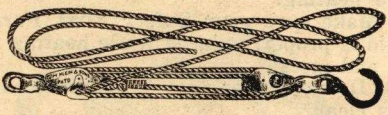
1. Watch your lift when raising and lowering manhole cover.
2. Be sure cover is placed in line with hole and at that side which is farthest from the direction of traffic.
3. Be sure to place manhole guard and flag properly—and use ladder.
4. Before entering manhole determine first whether or not it is gassy. In doubtful cases always wear Klein safety harness.
5. Make sure open flames, lighted cigars, cigarettes or pipes are not carried into manholes.
6. Clean out all clippings and junk from manhole.
7. Before lighting furnace or blow torch, inspect them to see that all parts are in good order and that all threaded joints are tight.
8. Make sure that paraffin and metal is kept at least fifteen feet from manhole while heating.
9. Make sure your Safety First Furnace Shield is properly placed while heating paraffin and metal.
10. Do not lower pots in manhole unless all is clear.
11. Do not leave tools near manhole opening.
12. Do not leave dipper or ladle in pots when passing same to splicer.
13. Do not heat paraffin or metal under tent when placed less than fifteen feet from manhole.
14. Be careful when replacing manhole cover.
15. Always clean up around manhole when finished.
16. When leaving the work at night be sure that lantern is left burning and locked to cart.

# Klein's Howes Wire Tools

| Cat. No. | | Weight Each |
|---|---|---|
| 1702-20 | Single purchase<br>Strap 1¼-inch wide by 7 feet long. | 2 lbs. |

The swivel hook is steel with an opening large enough to go over an insulator pin or other convenient object to anchor to. The forward end has a locking device to hold the load at any distance. It is arranged so that a grip can be attached.

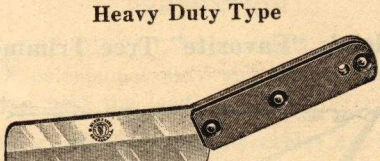
# Self-locking Block Tackle



| Cat. No. | | Weight per Doz. |
|---|---|---|
| 1802-30 | Furnished with 25 ft. ⅜-inch Manila rope and detachable hook | 2½ lbs. |

Consist of light steel shell blocks galvanized, fitted with a snubbing hook to lock load in any position. This is a great convenience and time-saver for the man on the pole. Also in handling a vertical load. To lock the load, simply pull the luff rope under the hook. To release, simply pull the rope. The blocks are arranged with spring guard snap hooks. When pulling up wire to make a splice it may be used with two grips attached to the snaps, or with the drop forged hook (shown in illustration) to anchor to an insulator-pin or other convenient anchorage.

## Klein's Cable Sheath Splitting Knife
### Heavy Duty Type



| Cat. No. | Weight per Doz. |
|---|---|
| 1515-1 | 12 lbs. |

Blade tempered and ground to keen edge. Has strong leather handle, securely riveted. Temper blued finish. A sturdy knife that will stand up to hard usage.

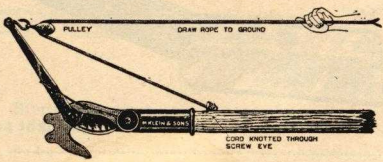
## Klein's Inspectors' Pocket Tool Kit

Solid black leather folding case strongly stitched, reinforced back. Fitted with one each of the following tools.

201-6 Side Cutting Plier. 301-5 Long Nose Plier. 1550-2 "Xela" Electrician's Knife. 1 Pr. Electrician's Tweezers. 1 Special File. 1 Special Screwdriver. A very handy assortment to fit the pocket.

| Cat. No. | Weight Each |
|---|---|
| 1305-2 | 1½ lbs. |

# Klein's "Favorite" Tree Trimmer




This trimmer, as its name implies, is a favorite among users.

The head is one piece and comprises the hook portion with which the knife engages and the socket into which the handle is inserted. This socket is perfectly straight, eliminating the necessity of tapering the end of the handle. The knife is forged from crucible steel and is integral with the lever and the cutting edge is carefully tempered and ground making it very effective. This trimmer will sever a 1-inch branch. The knife is held open by a flat steel spring and is operated by a rope attached to the end of the lever.

Two threaded holes are provided for attaching a saw.

| Cat. No. | Size | Weight Each |
|---|---|---|
| 3600-21 | 23 inches over all (with saw) | 4 lbs. |

## Tree Trimmer Saw

| Cat. No. | Size | Weight Each |
|---|---|---|
| 931-12 | 12-inch for No. 3600-20 Trimmer | ⅜ lbs. |

## Tree Trimmer Handles

| Cat. No. | Size | Weight Each |
|---|---|---|
| 3601-6 | 18 ft., 3 sections, brass ferrules | 10½ lbs |
| 3601-9 | 18 ft., 2 sections, brass ferrules | 9¾ lbs. |

## SUGGESTIONS FOR ACCIDENT PREVENTION

BE CAREFUL in dismantling that the pole is not only side guyed, but also guyed with the lead.

Be careful if telephone cables are strung over light leads—a little precaution is worth months of regret.

Be sure you put your tools securely into your belt after you have finished using them. Hundreds of accidents are caused every year by tools dropped on helpers and on people passing by.

Do not take chances. Fasten your safety strap securely around the pole. Saving a minute by passing your strap over the top of a pin may mean years of waiting till you recover from a broken back.

Be sure the guy ropes to your platforms are tied securely and out of the way of traffic. Carelessness by someone on the ground may mean a dumping for you.

Watch your hand line. More than one bad shock has resulted from its contact with a power lead.

Do not try to melt paraffin on a platform. A fire on a platform is about as comfortable as on a ship at sea.

Do not use broken tools.

In cutting down old leads, be sure that the pole will hold you and that it is well guyed before you cut all the wires.

# Klein's "Chicago" Fish-Tape Puller

Patent No. 1,628,744

Here's a new Klein "Chicago" grip, a simple, husky come-along for Fish-Tape.

To engage puller on fish-tape place the tape sideways in slot and give puller a slight forward motion while pushing tape deeper into the slot. (This slips tape under the ratchet wheel.) Now pull. You have a positive grip on the tape. Slide forward on tape to position for new bite.

Klein's "Chicago" Fish-Tape Puller grips like a vise—never slips—simple, strong, automatic.

Does not injure the tape, 3¾" long, can be carried in the pocket.

Saves time and protects the hand.

| Cat. No. | Weight per Doz. |
|---|---|
| 1629 | 2½ lbs. |

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